# Polleniopsis annamensis Kurahashi, 1972 (Diptera: Calliphoridae) a new record from India, with a revised key to the known Indian species

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#### Abstract

Polleniopsis annamensis Kurahashi, 1972 has been recorded for the first time from India (Western Ghats). A key to the four species of the genus Polleniopsis Townsend, 1917 recorded so far from India is provided.

**Key words**: Diptera, Calliphoridae, Calliphorinae, Polleniopsis, new record, Western Ghats, India.

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### Introduction

Genus Polleniopsis Townsend, 1917 belongs to Onesia-group of tribe Calliphorini. It includes 43 species from East Asia, Australia and Oceania (Verves, 2005). Two species are earlier known from India: P. pilosa Townsend, 1917, P. kashmirensis Kurahashi and Okadome, 1976(Bharti, 2011) and an undescribed species Bharti and Verves,2015 (in press). The present species Polleniopsis annamensis Kurahashi, 1972 has been recorded from Nandi hills falling in the state of Karnataka. A key to the species of Indian Polleniopsis has been provided.

The ecology of these flies is poorly known. Majority of the species prefer mountainous regions and have been collected from up to an altitude of 4650m above mean sea level. The adults of few species (P. chosenensis, P. dandoensis, P. hokurikuensis, P. horii and P. mongolica ) have been reported to frequent flowers of the mountains (Kurahashi, 1964; Kurahashi, 1972).

#### **Materials and Methods**

The fly was collected with an entomological net from an altitude of 1500m from Nandi Hills falling in the state of Karnataka. The material was examined under Nikon SMZ 1500 stereozoom microscope. Digital images were captured with the help of an MP evolution digital camera mounted on Nikon SMZ 1500 using Auto-Montage (Syncroscopy, Division of Synoptics, Ltd) software. The images were processed and

cleaned with Adobe Photoshop CS5.

#### New Record

**Polleniopsis annamensis Kurahashi, 1972** (Figs. 1, 2, & 3)

<u>urn:lsid:zoobank.org:act:F62239D6-C4D6-4185-937C-EC4CE48E1DEB</u>

**Material Examined:** INDIA: 1♂, Nandi Hills, Karnataka; 13°38" N, 77°70"E, altitude 1500m, 30.IX.2014, M. Bharti.

**Distribution:** India (Karnataka) (New record), China: Hainan Islands, Viet Nam

Remarks: The genus Polleniopsis characterized by reduced number of presutural acr (0-2); well-developed facial carina; densely dusted body and lack of presutural intra alar bristles. The species P. annamensis closely resembles P. dalatensis Kurahashi,1972 but could be distinguished from the latter by the following combination of characters: facial carina well developed; post-jowls clothed with black hairs: sternopleurals 1+1; third antennal segment 3X as long as second.

**Ecology:** P. annamensis has been recorded from Nandi Hills falling in the state of Karnataka. The vegetation of the above mentioned place is typical of high hills. The evergreen forest patch on top of the hill is a

favoured wintering location for many migrant

species of warblers, flycatchers and thrushes.

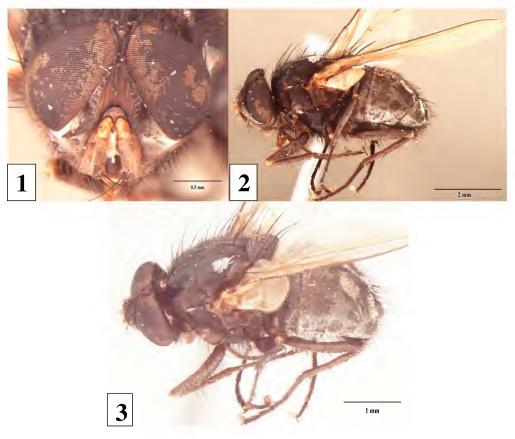


Fig.1-3: Polleniopsis annamensis, male, 1.head view; 2.profile view; 3. dorsal view

## Key to the species of Polleniopsis from India

- 1. Abdomen entirely dark grey to black, silver-gray dusted......2

- 3. Abdomen entirely metallic green; basicosta orange; acr 1+3. 6.5-7.5 mm....
  - .**P. kashmirensis Kurahashi & Okadome** India (Jammu & Kashmir)
- 1+2<sup>nd</sup> and 3<sup>rd</sup> abdominal tergites dark blue, 4<sup>th</sup> and 5<sup>th</sup> ones light blue; basicosta black; acr 0+2. 10 mm ....P. undescribed species India(Arunachal Pradesh)

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